



United States Environmental Protection Agency  
Office of Environmental Measurement & Evaluation  
11 Technology Drive  
North Chelmsford, MA 01863-2431

Biology Laboratory Report

January 9, 2018

Danielle Gaito - Mail Code OEP06-4  
Evan Lewis - Mail Code OEP06-1  
US EPA New England RI

Project Number: 17120020  
Project: Merrymeeting River - New Durham, NH  
Analysis: Chlorophyll in Water  
Analyst: Nathan Raines

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample Preparation and Analysis was completed following EPA Region 1 ECASOP, Chlorophyll SOP4

Analytical Reference: In Vitro Determination of Chlorophyll a and Pheophytin a in Marine and Freshwater Algae by Fluorescence. EPA Method 445.0, Revision 1.2, September 1997.

Date Samples Received by the Laboratory: 12/14/2017

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Biology QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8609

Sincerely,

A handwritten signature in blue ink, appearing to read "David F. McDonald".

David F. McDonald  
Biology Laboratory Manager

PN. 17120020

## Biology Laboratory Data Qualifier Codes

RL	Reporting limit
ND	Not Detected above reporting limit
NA	Not Applicable
NC	Not calculated since analyte concentration is ND
L	Estimated, result below reporting limit (RL)
J	Estimated value because sample associated with out of range CCV
J1	Estimated value due to MS recovery outside acceptance criteria
J2	Estimated value due to RPD result outside acceptance criteria
J3	Estimated value due to LFB recovery outside acceptance criteria
B	Analyte is associated with the lab blank or trip blank contamination. Value is qualified if concentration is > RL and > one-tenth the concentration measured in the sample.
R	No recovery was calculated since the analyte concentration is greater than four times the spike level.
LRB	Laboratory Reagent Blank
RPD	Relative Percent Difference
H	Sample did not meet hold time

US ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND LABORATORY

Merrymeeting River - New Durham, NH

Chlorophyll in Water

Matrix: Water

Sample Number	Lab ID	Collected	Extracted	Analysis	Concentration ug/L	RL ug/L	Qualifier
Dup	AB72724	12/14/2017	12/27/2017	12/28/2017	3.9	0.20	
Comments							
MM01	AB72719	12/14/2017	12/27/2017	12/28/2017	3.5	0.20	
Comments							
MM02	AB72722	12/14/2017	12/27/2017	12/28/2017	1.5	0.20	
Comments							
MM03	AB72723	12/14/2017	12/27/2017	12/28/2017	1.1	0.20	
Comments							
PM01	AB72720	12/14/2017	12/27/2017	12/28/2017	0.82	0.20	
Comments							
PM02	AB72721	12/14/2017	12/27/2017	12/28/2017	2.6	0.20	
Comments							
Blank			12/27/2017	12/28/2017	ND	0.2	
Comments							

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Laboratory Fortified Blank (LFB) Results

Merrymeeting River

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
Chlorophyll in Water	4.88	4.52	92.6	70 - 130

Blank = ND RL = 0.2

Comments:

Samples in Batch: AB72719, AB72720, AB72721, AB72722, AB72723, AB72724

